



POWER OF ATTORNEY BY ASSIGNEE
AND EXCLUSION OF INVENTOR/S UNDER 37 C.F.R. §1.32
AND STATEMENT UNDER 37 C.F.R. § 3.73(b)

To the Commissioner of Patents and Trademarks:

The undersigned assignee of the entire interest in application for letters patent submitted in connection with Serial No. 09/996,869, filed on November 27, 2001, entitled *Semiconductor Wafer Processing System with Vertically-Stacked Process Chambers and Single-Axis Dual-Wafer Transfer System*, and having the named inventor(s):

**Richard N. SAVAGE; Frank S. MENAGH; Helder R. CARVALHEIRA;
Philip A. TROIANI; Dan L. COSSENTINE; Eric R. VAUGHAN; and Bruce E. MAYER**

hereby appoint both jointly and severally, the DORSEY & WHITNEY LLP attorneys and agents associated with Customer Number 32940 as its attorneys with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith, said appointment to be to the exclusion of the inventor(s) and his (their) attorney(s) in accordance with the provisions of 37 C.F.R. 3.71; provided that if any one of said attorneys ceases being affiliated with the law firm of DORSEY & WHITNEY LLP as partner, employee or of counsel, such attorney's appointment as attorney and all powers derived there from shall terminate on the date such attorney ceases being so affiliated.

Direct all telephone calls to Maria S. Swiatek at (650) 494-8700. Address all correspondence to:

DORSEY & WHITNEY LLP
Suite 3400, Four Embarcadero Center
San Francisco, California 94111-4187

ASML US, Inc., a Corporation of the State of Delaware, certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of an assignment from the inventor of the patent application identified above. A copy of the executed, unrecorded assignment is attached hereto. The undersigned (whose title is supplied below) is empowered to act on behalf of the assignee.

ASML US, INC.

Date: May 30, 2003

By: 

Type Name: Jeffrey M. Kowalski

Title: President-ASML Thermal Division
440 Kings Village Road
Scotts Valley, CA 95066



Docket No. A-67736-2/MSS (463035-481)

FORM PTO 1595
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)**RECORDATION COVER SHEET
PATENTS ONLY**U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name(s) of conveying party(ies): Richard N. Savage;
Frank S. Menagh; Helder R. Carvalho; Philip A.
Troiani; Dan L. Cossentine; Eric R. Vaughan; Bruce
E. MayerAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: 12/10/02 (Cossentine, Menagh,
Troiani; 12/13/02 (Carvalho, Mayer); 12/16/02
(Vaughan), 1/29/03 (Savage)

2. Name and address of receiving party(ies)

Name: ASML US, Inc.Internal Address: 440 Kings Village RoadStreet Address: 440 Kings Village RoadCity: Scotts Valley State: CAZIP: 95066Country: U.S.Additional name(s) & address(es) attached ☐ Yes ☒ No4. Application number(s) or patent number(s): 09/996,869

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) 09/996,869

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence
concerning document should be mailed:Name: Maria S. SwiatekInternal Address: DORSEY & WHITNEY LLPStreet Address: 850 Hansen Way, Suite 200City: Palo Alto State: CA ZIP 94304-10176. Total Number of applications and patents
involved: 17. Total fee (37 CFR 3.41) . . . x \$40. 40.00

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit Account number: 50-2319 (Our Order No.
A-67736-2/MSS (463035-481))

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a
true copy of the original document.Maria S. SwiatekName of Person Signing
Reg. No. 37,244Maria S. Swiatek
SignatureFebruary 3, 2003

Date

Total number of pages including cover sheet, attachments, and document: 7

Mail documents to be recorded with required cover sheet information to:

**Commissioner of Patents & Trademarks,
BOX ASSIGNMENTS
Washington, D.C. 20231**

ASSIGNMENT

WHEREAS, the undersigned, **Richard N. Savage**; a resident of **Scotts Valley, California**; **Frank S. Menagh**, a resident of **Santa Cruz, California**; **Helder R. Carvalho**, a resident of **Scotts Valley, California**; **Philip A. Troiani**, a resident of **Santa Cruz, California**; **Dan L. Cossentine**, a resident of **Santa Cruz, California**; **Eric R. Vaughan**, a resident of **Santa Cruz, California**, and **Bruce E. Mayer**, a resident of **Soquel, California**; have invented certain new and useful improvements in *Semiconductor Wafer Processing System with Vertically-Stacked Process Chambers and Single-Axis Dual-Wafer Transfer System*, and having filed an application for a United States patent disclosing and identifying the invention on November 27, 2001 as Serial No. 09/996,869 and is a divisional of patent application Serial No. 09/483,945 filed January 13, 2000 and which claims priority to provisional patent applications Serial Nos. 60/127,532 and 60/127,650 both of which were filed April 2, 1999; and

WHEREAS, **ASML US, INC.** (hereinafter termed "Assignee"), a body having corporate powers under the laws in the State of Delaware, having a place of business at **440 Kings Village Road, Scotts Valley, California 95066**, is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey unto said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; and (d) in and to each and every reissue or extension of any of said patents; and (e) all claims for damages by

reason of past infringement of said Patents, with the right to sue for and collect the same for its own use and enjoyment, and for use and enjoyment of its successors, assigns or other legal representatives.

2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.

3. The terms, covenants and conditions of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives and assigns.

4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee the day and year below written.

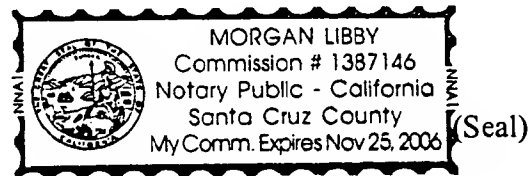
Dated: January 29, 2002³ Richard N. Savage
Richard N. Savage

State of California)
County of Santa Cruz) SS

On 29 Jan, 2002³, before me, Morgan Libby, Notary Public of the State of California, personally appeared Richard N. Savage, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Morgan Libby



Dated: Dec 10, 2002

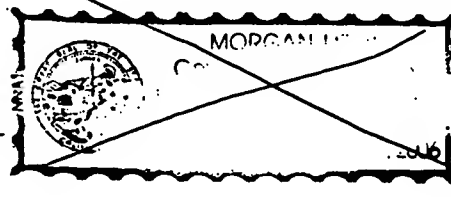
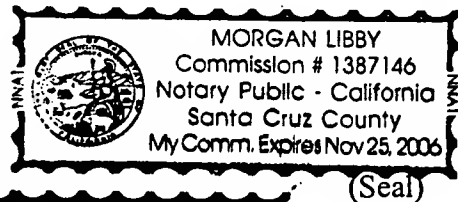
Frank S. Menagh
Frank S. Menagh

State of California)
County of Santa Cruz) SS

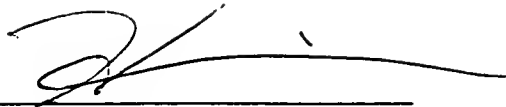
On Dec 10th, 2002, before me, Morgan Libby, Notary Public of the State of California, personally appeared Frank S. Menagh, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Morgan Libby



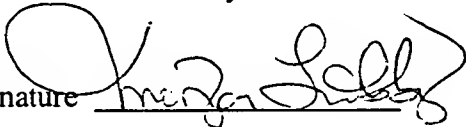
Dated: 12-13-02, 2002

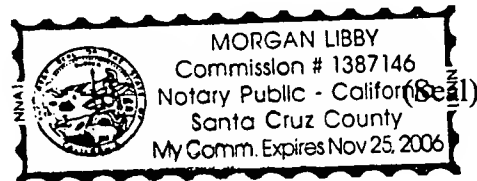

Helder R. Carvalho

State of California)
County of Santa Cruz) SS


On Dec 13, 2002, before me, Morgan Libby, Notary Public of the State of California, personally appeared Helder R. Carvalho, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature 




Dated: 12-10, 2002


Philip A. Troiani

State of California)
County of Santa Cruz) SS

On Dec 10, 2002, before me, Morgan Libby, Notary Public of the State of California, personally appeared Philip A. Troiani, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature 



(Seal)

Dated: Dec 10, 2002

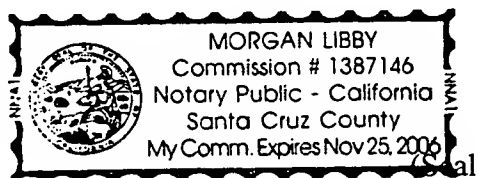
Dan Cossentine
Dan L. Cossentine

State of California)
County of Santa Cruz) SS

On Dec 10, 2002, before me, Morgan Libby, Notary Public of the State of California, personally appeared Dan L. Cossentine, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Morgan Libby



Dated: Dec 16, 2002

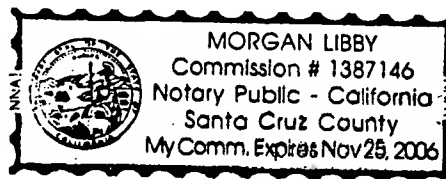
Eric R. Vaughan
Eric R. Vaughan

State of California)
County of Santa Cruz) SS


On Dec 16, 2002, before me, Morgan Libby, Notary Public of the State of California, personally appeared Eric R. Vaughan, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Morgan Libby



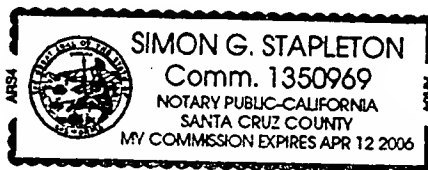
(Seal)


Bruce E. Mayer

State of California)
) SS
County of SANTA CRUZ)

WITNESS my hand and official seal.

Signature



(Seal)